ABSTRACT OF THE DISCLOSURE

An electric synchronous machine with improved torque characteristic has a stator and a rotor, wherein the stator includes a winding, preferably a three-phase AC winding, with an average coil width τ sp. The rotor is provided with permanent magnets and has a pole pair number of 2p with a pole pitch width τ p, wherein the pitch ratio τ sp/ τ p is ≥ 2.5 .